

November 16, 2010

Basis for Post-Construction Certification by Windstorm Engineer

The certifying engineer shall use a standard of care and his/her opinion shall not be held to a burden of proof for compliance for windstorm certification.

Windstorm compliance disputes between the certifying engineer and TDI shall be subject to peer review. The peer review committee should be a minimum of three appointed engineers in good standing with the TDI. The peer review committee shall consist of one engineer selected by TDI, one engineer selected by the certifying engineer, and a third engineer mutually agreed upon by both parties.

An alternative certification (or WPI-8 light) is not recommended.

A mandated inspection check list is not recommended for post-construction windstorm certification.

I. Appointment process of engineers:

- A. There should not be a separate category for post construction inspection engineers or standard windstorm inspections.
- B. The appointment process should require additional verification of technical competency in the field of windstorm engineering.

II. Subject Structure

- A. Identify applicable code based on date of construction
- B. Identify corresponding design criteria
 - a. Wind pressures, loads on structures and components and cladding
 - b. Applicability of prescriptive codes and design guides
- C. Identify As-built conditions (non-invasive identification), material of construction (MWFRS)
- D. Identify Components and Cladding as applicable to code requirements

III. Perform analysis (design check) of structure with initial observed conditions

- A. Analysis MWFRS
- B. Analysis of Comp and Cladding
- C. Develop / Select construction material and connection design requirements

IV. Perform detailed / invasive inspection and gather documentation to confirm as-built conditions and resolve any differences between design and as-built conditions

- A. Foundation
- B. MWFRS
 - a. Lateral resisting systems
 - b. Continuous load path
- C. Components and Claddings
- D. Documentation of Inspection
 - a. Field report

V. Determine windstorm compliance

- A. Pass – Issue WPI-2
- B. Deficient - Issue retrofit design details for deficient items